

WHAT IS CLAIMED IS:

1. A DNA segment encoding a mammalian GDF-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.

2. The DNA segment according to claim 1 wherein said GDF-1 protein has the sequence as defined in Figure 2, 11A or 11B. *A2*

3. The DNA segment according to claim 1 wherein said mammal is a mouse, hamster or human.

SUP C1 4. A mammalian GDF-1 protein substantially free of proteins with which it is naturally non-covalently associated, ~~or an epitope specific thereto.~~ *← insert out need period*

5. The protein according to claim 4 which is unglycosylated.

6. The protein according to claim 4 wherein said mammal is a mouse, hamster or human.

7. The protein according to claim 4 wherein said protein is chemically synthesized.

Sub D1 8. The protein according to claim 4 wherein said protein has a ^{GDF-1} sequence as defined in Figure 2, 11A or 11B, ~~or functionally equivalent variation thereof.~~ *inserted in wrong place*

B
B
B
B
B 9. A recombinantly produced GDF-1 protein having the ^{GDF-1} amino acid sequence given in Figure 2, 11A or 11B, ~~or functionally equivalent variation thereof.~~

10. The protein according to claim 9 wherein said protein is unglycosylated.

11. A recombinant DNA molecule comprising:

- i) said DNA segment according to claim 1;
- and
- ii) a vector.

12. A host cell stably transformed with said recombinant DNA molecule according to claim 11.

13. The host cell according to claim 12 wherein said cell is a procaryotic cell.

14. The host cell according to claim 12 wherein said cell is a eucaryotic cell.

15. A method of producing a recombinant GDF-1 protein, or functionally equivalent variation thereof, comprising culturing said host cell according to claim 12 under conditions such that said segment is expressed and said GDF-1 protein thereby produced, and isolating said GDF-1 protein.

16. A DNA segment encoding a mammalian UOG-1 protein, or an epitope specific thereto, or a DNA fragment complementary to said DNA segment.

17. A mammalian UOG-1 protein substantially free of proteins with which it is naturally non-covalently associated, or an epitope specific thereto.

18. A recombinantly produced UOG-1 protein having the amino acid sequence given in

Figure 11A or 11B, or functionally equivalent variation thereof.

19. A recombinant DNA molecule comprising:
i) said DNA segment according to claim 16; and
ii) a vector.

20. A host cell stably transformed with said recombinant DNA molecule according to claim 19.

21. A method of producing a recombinant UOG-1 protein, or functionally equivalent variation thereof, comprising culturing said host cell according to claim 20 under conditions such that said segment is expressed and said UOG-1 protein thereby produced, and isolating said UOG-1 protein.

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